For your quarter 3 project you will be researching quadratic functions (parabolas). There will be 3 parts to this project.

Part 1: You must find **two** examples of where quadratic functions are used in the real world. You must record your findings in a paragraph using complete sentences.

Part 2: You must find **two** examples of where complex numbers are used in the real world. You must record your findings in a complete paragraph using complete sentences.

Part 3: You must find **two** pictures that show the parabolic shape occurring in the real world. This could be through man-made constructions (buildings, bridges, architecture etc.) or in nature. When looking at the picture you must be able to see the parabola (you can not use parabolic motion.) You may not use your picture as one of your real world examples for part 1.

\_\_\_\_\_\_\_\_\_\_\_\_ (10 points) Your paper is typed and your pictures are printed clearly

\_\_\_\_\_\_\_\_\_\_\_\_ (20 points) Your pictures clearly demonstrate the parabolic shape

\_\_\_\_\_\_\_\_\_\_\_\_ (15 points) Your paragraphs are written using complete sentences with correct grammar, punctuation and spelling

\_\_\_\_\_\_\_\_\_\_\_\_ (10 points) ALL sources are cited. If you found information or your picture on the Internet include the website you found the information/picture. REMEMBER TO WRITE ALL INFORMATION IN YOUR OWN WORDS. IF YOU SIMPLY COPY AND PASTE THAT IS PLAGERISM AND WILL RESULT IN YOUR PROJECT SCORING A O.

\_\_\_\_\_\_\_\_\_\_\_\_ (20 points) Your real world example for parabolas is accurate and your paragraph describes:

1. Where it is used
2. How it is used
3. Who uses it
4. Why it is important.

\_\_\_\_\_\_\_\_\_\_\_\_ (20 points) Your real world example for complex numbers is accurate and your paragraph describes:

1. Where it is used
2. How it is used
3. Who uses it
4. Why it is important.

\_\_\_\_\_\_\_\_\_\_\_\_ (5 points) You turn in this rubric with your paper & pictures

\_\_\_\_\_\_\_\_\_\_\_\_\_/**100**

**THIS PROJECT IS DUE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**